

WHAT IS CLAIMED IS:

Sud B1

1. A device for outputting, as a voice, data information displayed on a display section of a portable telephone, comprising:
 - an audio output key for selecting an audio output mode of the portable telephone;
 - a memory for storing data displayed on the display section of the portable telephone;
 - an audio memory for storing audio data corresponding to the audio output mode of the portable telephone;
 - an audio processing section for modulating an audio signal inputted from a microphone, for converting said audio signal into audio data, for demodulating audio data inputted from an RF processing section and audio data stored in the audio memory to convert into an audio signal, and for outputting said audio signal as a voice; and,
 - a control section, when said audio output mode is selected by manipulation of the audio output key, for reading out the data displayed in the display section from the memory and the audio data from the audio memory, and for transmitting the audio data to the said audio processing section for outputting as said voice.
2. The device according to claim 1 further comprising a time mode selecting key for switching the audio output mode of the portable telephone into a time mode while the audio output mode of the portable telephone is selected in response to depression of the audio output key, wherein a time data displayed on the display section of the portable telephone is read out from the memory and a time audio data corresponding to the time data is read out from the audio memory in response to depression of the time mode selecting key so that the read out-time audio data is

outputted as said voice through the audio processing section and then a speaker.

3. The device according to claim 2 further comprising a received message mode selecting key for switching the audio output mode of the portable telephone into a received message mode while the audio output mode is switched into the time mode,
5 wherein a received message data displayed on the display section of the portable telephone is read out from the memory and a received message audio data corresponding to the received message data is read out from the audio memory in response to depression of the received message mode selecting key so that the readout received message audio data is outputted as said voice through the audio processing
10 section and then the speaker.

4. The device according to claim 3 further comprising a bell/vibration mode selecting key for switching the audio output mode of the portable telephone into a bell/vibration mode while the audio output mode is switched into the received message mode thereof, wherein a bell/vibration data displayed on the display section of the portable telephone is read out from the memory and a bell/vibration audio data corresponding to the bell/vibration data is read out from the audio memory in response to depression of the bell/vibration mode selecting key so that the read out bell/vibration audio data is outputted as said voice through the audio processing section and then the speaker.

20 5. The device according to claim 4 further comprising an antenna receiving electric field strength mode selecting key for switching the audio output mode of the portable telephone into an antenna receiving electric field strength mode while the audio output mode is switched into the bell/vibration mode, wherein an antenna receiving electric field strength data displayed on the display section of the portable

SEARCHED INDEXED
SERIALIZED FILED
APR 20 1994

Sabu Al
15

telephone is read out from the memory and an antenna receiving electric field strength audio data corresponding to the antenna receiving electric field strength data is read out from the audio memory in response to depression of the antenna receiving electric field strength mode selecting key so that the read out- antenna receiving electric field strength audio data is outputted as said voice through the audio processing section and then the speaker.

Sub
A1

6. A device for audio outputting display data information displayed on a display section of a portable telephone, comprising:

an audio output key adapted to select an audio output mode of the portable telephone;

10 a time mode selecting key adapted to switch the audio output mode of the portable telephone into a time mode while the audio output mode of the portable telephone is selected in response to depression of the audio output key;

a received message mode selecting key adapted to switch the audio output mode of the portable telephone into a received message mode while the audio output mode is switched into the time mode;

15 a bell/vibration mode selecting key adapted to switch the audio output mode of the portable telephone into a bell/vibration mode while the audio output mode is switched into the received message mode;

20 an antenna receiving electric field strength mode selecting key adapted to switch the audio output mode of the portable telephone into an antenna receiving electric field strength mode while the audio output mode is switched into the bell/vibration mode;

25 a memory adapted to store each data displayed on the display section of the portable telephone;

an audio memory adapted to store each audio data corresponding to the audio

Sub A1

output mode of the portable telephone;

5 an audio processing section adapted to modulate an audio signal inputted from a microphone for conversion to an audio data, and demodulate an audio data inputted from an RF processing section and the audio data stored in the audio memory to an audio signal to output the demodulated audio signal as a voice through a speaker; and

10 a control section adapted to read out the data displayed in the display section from the memory and the audio data corresponding to a selected audio output mode from the audio memory, respectively, when each of the mode selecting keys is depressed while a predetermined audio output mode is selected by manipulation of the audio output key to control the data read out from the memory and the audio data read out from the audio memory so that the audio data is outputted as a voice through the audio processing section and a speaker.

15 7. The device according to claim 6, wherein the audio output key, the time mode selecting key, the received message mode selecting key, the bell/vibration mode selecting key, and the antenna receiving electric field strength mode selecting key are constructed as a single multi-function key which includes a function of each of the mode selecting keys.

Sub B2

20 8. A method of outputting, as a voice, data information displayed on a display section of a portable telephone including an audio output key, comprising the steps of:

detecting data displayed on the display section in response to the selective depression of the audio output key; and

reading out audio data corresponding to the detected data from an audio memory and outputting, as a voice, sequentially audio data corresponding to the data information displayed on the display section.

9. A method of outputting, as a voice, data information displayed on a display section of a portable telephone including an audio output key, comprising the steps of:

detecting data displayed on the display section in a standby state of the portable telephone;

5 determining whether or not the audio output key is depressed;

storing data displayed on the display section in a memory while a corresponding audio output mode is selected in response to depression of the audio output key;

10 reading out the data stored in the memory and an audio data corresponding to the readout data from an audio memory; and

outputting, as a voice, the readout audio data through a speaker.

10. A method of outputting, as a voice, data information displayed on a display section of a portable telephone including an audio output key, a time mode selecting key, a received message mode selecting key, a bell/vibration mode selecting key, and a antenna receiving electric field strength mode selecting key comprising the steps of:

selecting an audio output mode of the portable telephone;

switching the audio output mode of the portable telephone into a time mode in response to depression of the time mode selecting key while the audio output mode of the portable telephone is selected in response to depression of the audio output key;

switching the audio output mode of the portable telephone into a received message mode in response to depression of the received message mode selecting key while the audio output mode is switched into the time mode;

25 switching the audio output mode of the portable telephone into a bell/vibration mode in response to depression of the bell/vibration mode selecting key while the audio output mode is switched into the received message mode;

DETAILED DESCRIPTION

*Sub
A2
15*

switching the audio output mode of the portable telephone into an antenna receiving electric field strength mode in response to depression of the antenna receiving electric field strength mode selecting key while the audio output mode is switched into the bell/vibration mode;

5 storing each data displayed on the display section of the portable telephone in a memory;

Su6 P32
 storing each audio data corresponding to the audio output mode of the portable telephone in an audio memory;

10 modulating an audio signal inputted from a microphone for conversion to an audio data, and demodulating an audio data inputted from an RF processing section and the audio data stored in the audio memory to an audio signal through an audio processing section to output the demodulated audio signal as voice through a speaker; and

15 reading out the data displayed in the display section from the memory and the audio data corresponding to a selected audio output mode from the audio memory, respectively, when each of the mode selecting keys is depressed while a predetermined audio output mode is selected by manipulation of the audio output key to control the data read out from the memory and the audio data read out from the audio memory so that the audio data is outputted as a voice through the audio processing section and the speaker.

X1. A device for outputting, as a voice, data information displayed on a display section of a portable telephone, comprising:

25 an audio output key for selecting an audio output mode of the portable telephone;

B
 a memory for storing data displayed on the display section of the portable telephone;

an audio memory for storing audio data corresponding to the audio output mode of the portable telephone;

an audio processing section for modulating an audio signal inputted from a microphone, for converting said audio signal into audio data, for demodulating audio data inputted from an RF processing section and audio data stored in the audio memory to convert into an audio signal, and for outputting said audio signal as a voice; and,

a control section, when said audio output mode is selected by manipulation of the audio output key, for reading out the data displayed in the display section from the memory and the audio data from the audio memory, and for controlling said audio processing section to output said audio data as said voice.

DO NOT DESTROY